

TOMORROW. BUILDING

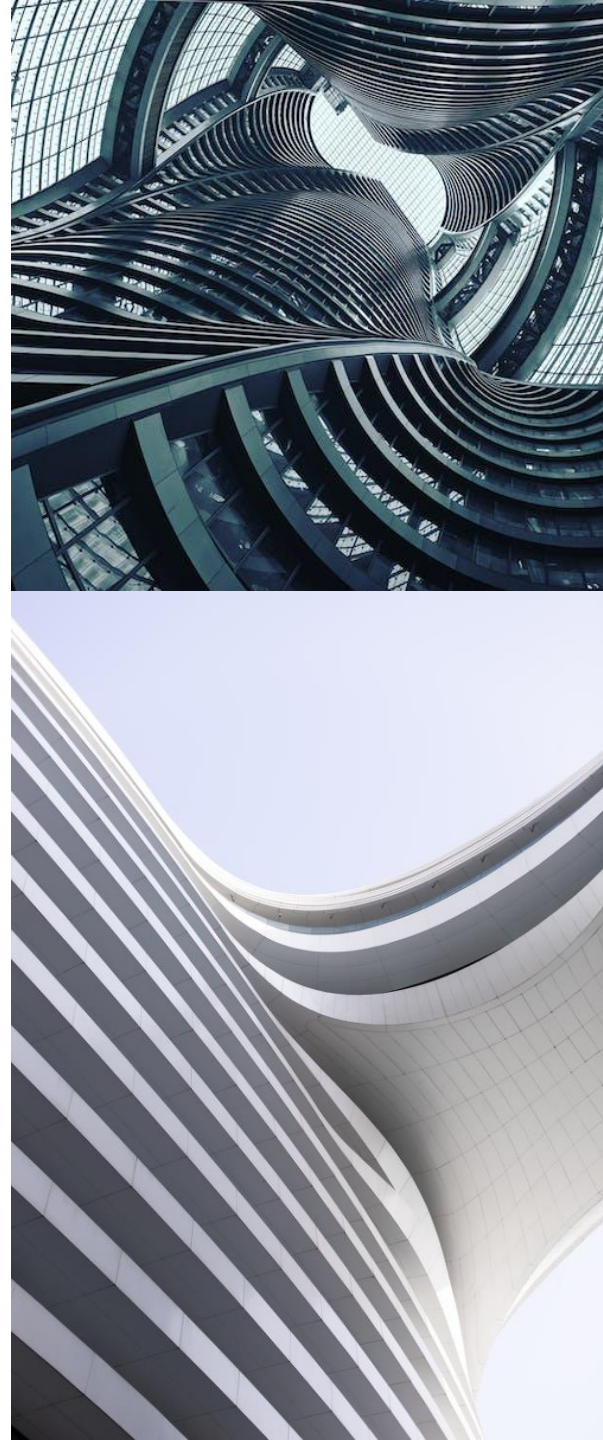
WITHIN THE FRAMEWORK OF:

SMARTCITY
EXPO WORLD CONGRESS



Buildings are currently responsible for **30 to 40% of total city emissions**. As the pressure to act on climate change increases, local authorities aim to **regenerate infrastructures** so that they are more energy-efficient and sustainable.

What do city leaders need to consider in order to **contribute to a better quality of life** through smart and sustainable buildings and well-integrated and intelligent city infrastructures?





“

“The event has done an excellent job in changing the conversation about the technology itself to the people and how to make the public space a safer and more inviting place for us to be.”

MIGUEL SANGALANG

Executive Director & General Manager,
City of Los Angeles Bureau of Street Lighting

“

What if your outside space was as safe as your home? The outside space should provide this beautiful, secure attitude. It's a very focal point to make our cities better.

BENEDETTA TAGLIABUE

Founder & Head Architect,
Miralles Tagliabue EMBT

”



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**TOMORROW.
BUILDING**



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“Being here allows us to have a voice in cities regarding investment, sustainability and digitalization, and to create the port of the future.”

EMMA COBOS

Director of Innovation & Business Strategy, Port de Barcelona

“

The first year we came, we selected the best practices we saw and imported them to Montevideo. As a result, we had good improvements. So, this year we came back to get ideas and collaborate to improve the region.

CRISTINA ZUBILLAGA

Director of Sustainable Development, City of Montevideo



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**TOMORROW.
BUILDING**

WHAT HAPPENED IN 2022...



TOMORROW. BUILDING

INFRASTRUCTURE & BUILDINGS

New for 2022, Tomorrow.Building is a dedicated initiative shining a spotlight on the topics of infrastructure and construction at Smart City Expo World Congress.

Its aim is to defend the need for a more digitalized model for construction as a way to improve sustainability and apply practices that reduce the environmental impact of construction and infrastructure.

SDGs covered:



WORLDWIDE EXPERTS

Just some of the many world-renowned specialists in infrastructures & buildings who have shared their voice at the event conferences



ELIZABETH DILLER

Partner, Diller Scofidio
+ Renfro



JENNIFER SCHOOLING

Director, Centre for Smart
Infrastructure and Construction,
University of Cambridge



BENEDETTA TAGLIABUE

Founder & Head Architect,
Miralles Tagliabue EMBT



STEPHEN RICHARDSON

Director of the Europe
Regional Network, World
Green Building Council



ESZTER DÁVIDA

Member of the Board, KÉK
- Hungarian Contemporary
Architecture Centre



GRETA TRESSERRA

Board Member, Architects'
Association of Catalonia
(COAC)

CONGRESSES

WORLDWIDE EXPERTS

Just some of the many world-renowned specialists in infrastructures & buildings who have shared their voice at the event conferences



JOE DIGNAN

Head of European
Government Insights, IDC



MARTHA THORNE

Dean, IE University of
Architecture and Design



MICHAEL FLYNN

Global Infrastructure,
Transport & Regional
Government Leader, Deloitte



ANGELA HEISE

Worldwide Public Sector,
Corporate VP, Microsoft



MATTHIAS SCHULER

Managing Partner,
Transsolar



CATALINA GRIMALT

General Deputy Director,
Port of Barcelona

CONGRESSES



MORE EXPERTS ON STAGE

- **MARTA FERNANDEZ BERTOS** - Executive Director, RMIT Europe
- **SELINA VANCANE** - Councillor, Deputy Chair, Riga City Council, Latvia
- **AMINATA LO** - Local Coordinator, ASToN African Smart Towns Network
- **LUCRECIA PANIZONI** - Undersecretary of Urban Maintenance, City of Buenos Aires, Argentina
- **MARTA SUBIRÀ I ROCA** - President, FGC Catalan Government Railway
- **CARLOS MORENO** - Scientific Director of the Chair "Entrepreneurship, Territory, Innovation", Sorbonne University-IAE Paris
- **CHRISTINA SALMHOFER** - Sustainability Strategist, City of Stockholm, Sweden
- **MARIA LENNARTSSON** - Technical Advisor, City of Stockholm, Sweden
- **SANDER DOLDER** - Senior Vice President, Smart & Sustainable Cities | Industry Initiatives, New York City Economic Development Corporation, US
- **FRANCESCA CESA** - Project Director, Stefano Boeri Archietti
- **DUNCAN MANN** - COO, HoxtonAi
- **TONI PAJU** - CEO, Crowdsorsa
- **IGNACIO MOLINA MILLÁN** - BIM Projects Director, SENER Infrastructure
- **MIGUEL DOMINGO LODEIRO** - Co-Founder & CEO, Staria Technologies
- **HOORIAH AHMED** - Planning Advisor, Ajman Municipality & Planning department, United Arab Emirates
- **FRANCESCA BRIA** - President, Italian National Innovation Fund
- **ESTANISLAU VIDAL-FOLCH** - Director of the Development Area Delegation of the Spanish Government in Catalonia
- **MARCOS ROS** - MEP, European Parliament
- **YOUSSEF DIAB** - Scientific Director, UGE/EIVP
- **URSULA EICKER** - Canada Excellence Research Chair (CERC) for Next-Generation Cities, Concordia University
- **GREG WILSON** - CTO Government, Microsoft
- **HELENA ANGERER** - Research Associate, Nuremberg Institute of Technology, Germany
- **JULIA ARNERI** - Deputy Managing Director, Paradox Engineering
- **RAMON GRAS ALOMÀ** - Cofounder, Aretia Urban Analytics and Design
- **AURELIO MUÑOZ** - I2M Business Development Global Markets, SENER Engineering
- **SONIA SETHI** - Principal Secretary, Urban Development Department of Maharashtra, India
- **OLGA CHEPELIANSKAIA** - Founding Director, UNICITI
- **BRITANNY LEE** - Product Manager, Smart Buildings IOT, Rogers Communications

CONGRESSES

AUDITORIUM

TUESDAY 15

Urban Catalysts

INFRASTRUCTURES & BUILDINGS

Pipo Serrano will be in conversation with Elizabeth Diller, whose interdisciplinary design work addresses fundamental issues of our time: the importance of cultural engagement, the utilization of public space, shaping the future of our cities and the environment, and rethinking our institutions in a time of rapid social, political, technological and environmental change. The discussion will examine the provocations and unforeseen consequences of her studio's work including The High Line and The Shed in New York, as well as Zaryadye Park in Moscow.

INTRODUCED BY:



Pipo Serrano

*Journalist, Deputy General Manager
& Head of Innovation and New
Business*
Broadcaster
Barcelona, Spain



Elizabeth Diller

Partner
Diller Scofidio + Renfro (DS+R)
New York, United States of America

Bettering Urban Design through City Analytics

INFRASTRUCTURES & BUILDINGS

How can cities use data collection and analytics for their benefit? Can data improve urban design? This Solution Talks session will explore successful stories in which the use of data, its collection, and analytics have impacted how the streets of cities are being monitored and their positive effect on planning, designing, efficiency, and maintenance.

CHAIR:



Jennifer Schooling

CSIC Director
Centre for Smart Infrastructure and
Construction, University of
Cambridge
Cambridge, United Kingdom



Duncan Mann

CEO
HoxtonAi
London, United Kingdom



Toni Paju

CEO
Crowdsorsa
Tampere, Finland



Ramon Gras Alomà

CoFounder
Aretian Urban Analytics and Design
| Harvard
Boston, United States of America



Helena Angerer

Research Associate
Nuremberg Institute of Technology
Nuremberg, Germany



Julia Arneri

Deputy Managing Director
Paradox Engineering
Novazzano, Switzerland

Technology Paving Tomorrow's Towns

INFRASTRUCTURES & BUILDINGS

As the possibilities of digital twins and build-tech are endless, this session will explore successful stories of districts and cities being improved through Augmented Reality, Big Data, BIM, or Automation. As technology continues to prove that it can upgrade cities, what opportunities can we expect in the betterment of smarter buildings coming from the digitalization of urban design? In five years from now, what main digital tools will have become indispensable in the construction of smarter infrastructure?

CHAIR:



Jennifer Schooling

CSIC Director
Centre for Smart Infrastructure and
Construction, University of
Cambridge
Cambridge, United Kingdom



Aurelio Muñoz

*I2M Business Development Global
Markets*
SENER Engineering
Barcelona, Spain



Joe Dignan

*Head of European Government
Insights*
IDC
London, United Kingdom



Sonia Sethi

*Principal Secretary Urban
Development Department*
Government of Maharashtra
Mumbai, India



Miguel Domingo Lodeiro

Co-Founder & CEO
Staria Technologies
Cerdanyola del Vallés, Spain



Hooriah Ahmed

Planning advisor
Ajman Municipality & planning
department
Ajman, United Arab Emirates

Infrastructure Shaping Cities for the Better

INFRASTRUCTURES & BUILDINGS

As the pressure to act on climate change increases, local authorities aim at setting ambitious urban agendas that can advance energy-efficient and sustainable buildings, infrastructures, and cities as a whole. What do city leaders need to consider for contributing to a better quality of life through smart and sustainable buildings and a well-integrated and intelligent city infrastructure?

CHAIR:



Martha Thorne
Distinguished Professor
IE School of Architecture
Madrid, Spain



Benedetta Tagliabue
Founder and CEO
Benedetta Tagliabue - EMBT
Architects
Barcelona, Spain



Angela Heise
Worldwide Public Sector, Corporate
Vice President
Microsoft
Reston, United States of America



Matthias Schuler
Founder
Transsolar
Stuttgart, Germany



Michael Flynn
Global Infrastructure, Transport &
Regional Government Leader
Deloitte
Dublin, Ireland

CONGRESS

THEMATIC KEYNOTE SESSION

WEDNESDAY 16

The New European Bauhaus: Art, Science and Technology for the Green Deal

INFRASTRUCTURES & BUILDINGS

PRESENTER:



Greta Tresserra

Board Member
Architects' Association of Catalonia
(COAC)
Barcelona, Spain



Francesca Bria

President
Italian National Innovation Fund
Roma, Italy

CONGRESS

THEMATIC ROUNDTABLE

WEDNESDAY 16

What to Expect from the New European Bauhaus

INFRASTRUCTURES & BUILDINGS

2021 marked the starting point of the New European Bauhaus. A multi-disciplinary initiative that connects the European Green Deal to the way of life through the collaboration of architects, artists, engineers, designers, students, and citizens, to design a sustainable and inclusive future. Starting as a co-design movement, how does this initiative deliver? How can it connect with citizens? What can be the outcomes for the built environment?

CHAIR:



Greta Tresserra

Board Member
Architects' Association of Catalonia
(COAC)
Barcelona, Spain



Eszter Dávida

Member of the Board
KÉK – Hungarian Contemporary
Architecture Centre
Budapest, Hungary



Estanislau Vidal-Folch

Director of the Development Area
Delegation of the Spanish
Government in Catalonia
Barcelona, Spain



Marcos Ros

MEP
European Parliament
Murcia, Spain



Francesca Bria

President
Italian National Innovation Fund
Roma, Italy

Hitting Green Goals Through Zero-Emission Buildings

INFRASTRUCTURES & BUILDINGS

Infrastructure innovations, such as sponge cities and zero emission buildings, have the potential of drastically lowering the environmental impact of metropolises, accelerating the mitigation of greenhouse gas emissions. In a world where decarbonization is more pressing than ever, how can public space and green infrastructure combine into attaining greener cities? Are zero emission buildings an upcoming affordable reality or a costly far-fetched possibility?

CHAIR:



Brittany Lee

Product Manager, Smart Buildings IoT
Rogers Communications
Toronto, Canada



Olga Chepelianskaia

Founding Director
UNICITI
Toulouse, France



Ursula Eicker

Canada Excellence Research Chair (CERC) for Next-Generation Cities
Concordia University
Montreal, Canada



Stephen Richardson

Director of the Europe Regional Network
World Green Building Council
London, United Kingdom



Greg Wilson

CTO, Microsoft Government
Microsoft
London, United Kingdom





A CURATED PROGRAM OF SIDE EVENTS



CIRCULAR CITIES:
INNOVATION,
COLLABORATION AND
#BUILDINGLIFE



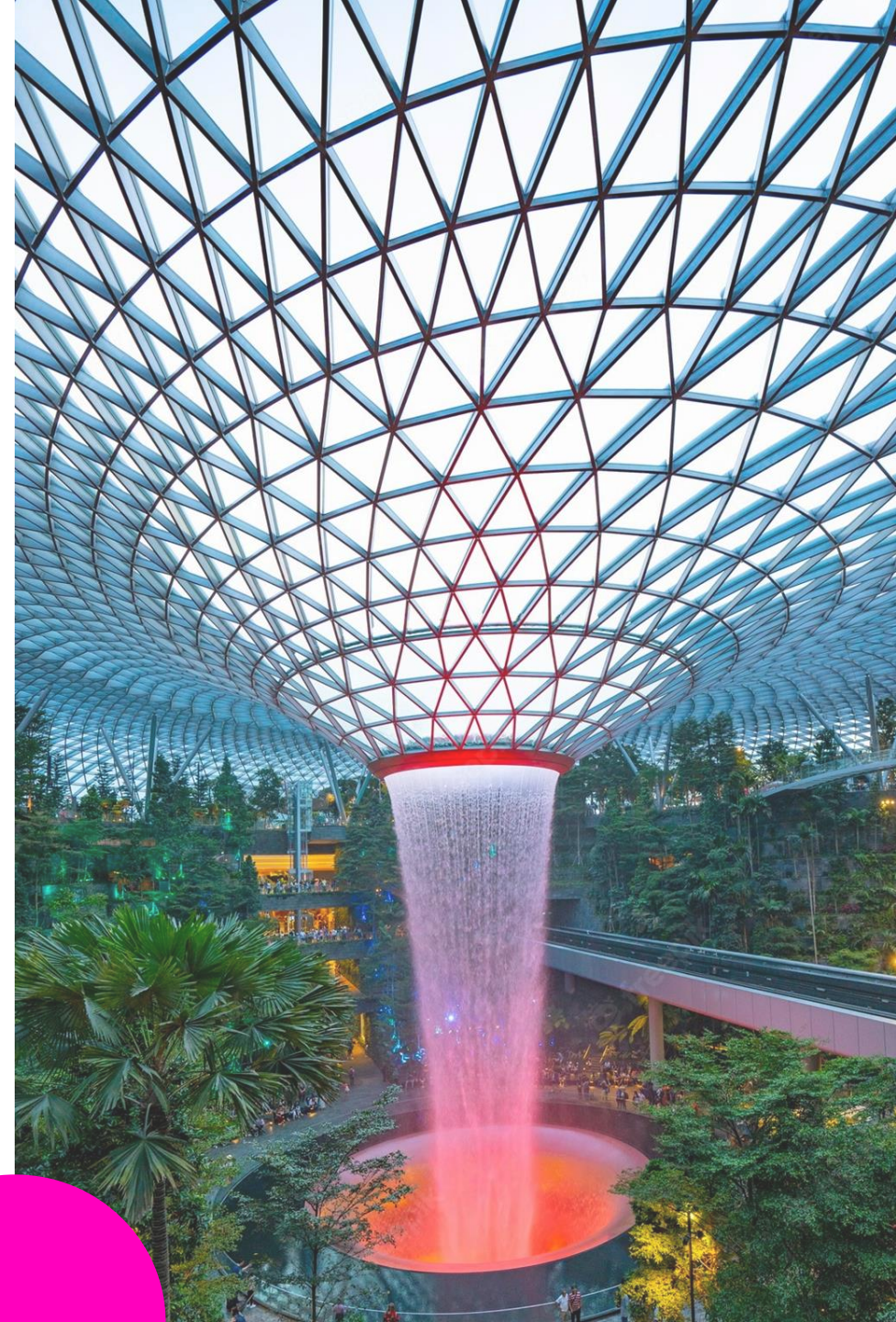
HEALTHY BUILDINGS
FOR PEOPLE AND
PLANET



HIGH-INFORMATION
SUSTAINABLE
DIGITALS MODELS FOR
CITIES



BUILDING A UNIQUE,
SUSTAINABLE AND
AFFORDABLE URBAN
FABRIC WITH AN
OPTIMAL ROI



A CURATED PROGRAM OF SIDE EVENTS

Iaac Institute for
advanced
architecture
of Catalonia

ÀTICCO The Innovative
Ecosystem

BUILDING WITH THE
INVISIBLE: TAKING
ADVANTAGE OF DATA

**DASSAULT
SYSTEMES**

SMART CITY VR
COLLABORATIVE
EXPERIENCE



**Ajuntament
de Barcelona**

BARCELONA GREEN
DEAL – BÀRBARA PONS
GINER, COMISSIONADA
D'AGENDA 2030

ZAG

**Universitat
de Barcelona**

**EXCEL
CONSULTING**

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**Gómez Pardo
FUNDACIÓN**

TU Delft
Delft University of
Technology

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IETU
K PLUS
TV

im CIVIL ENGINEERING INSTITUTE
MACEDONIA

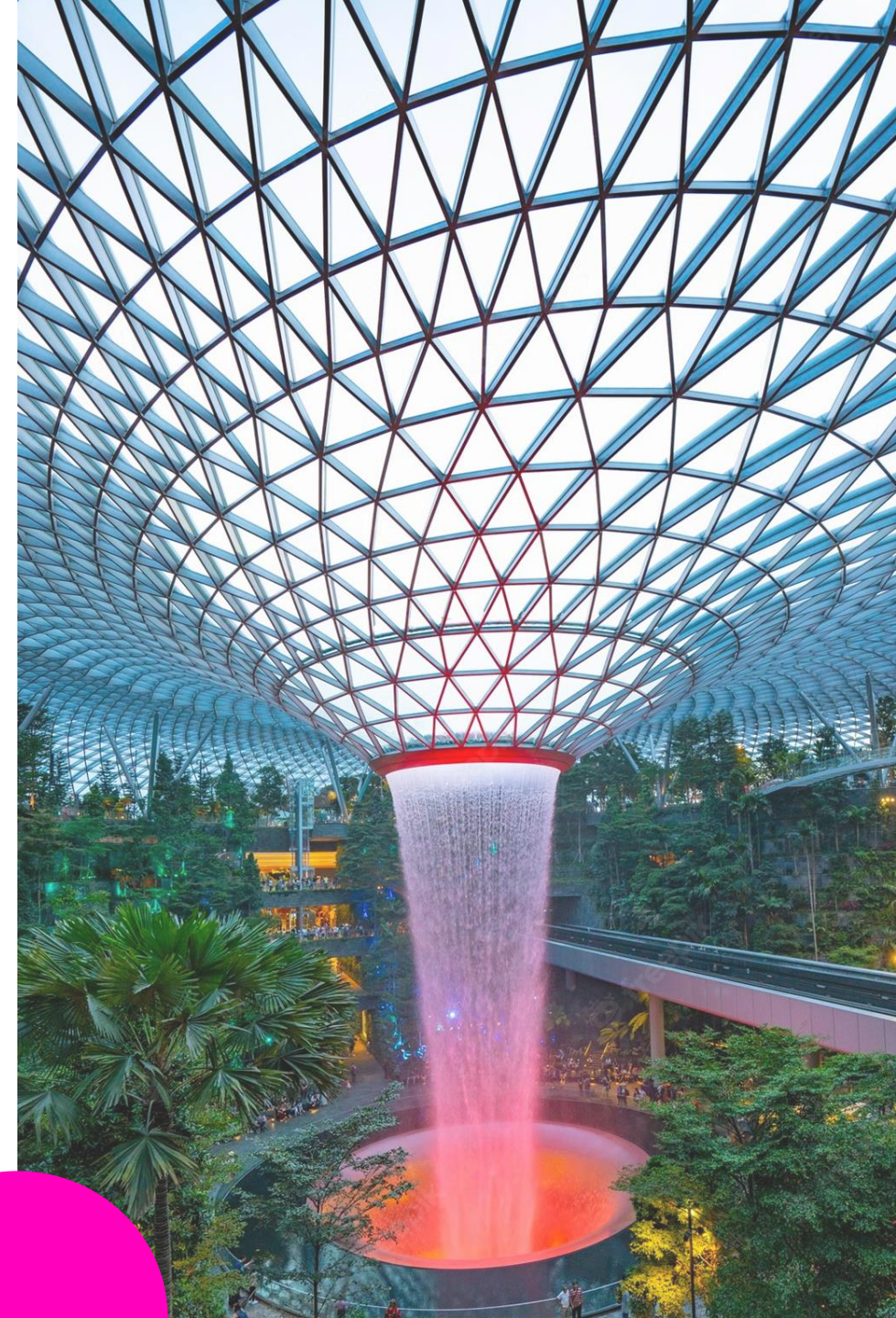
tecnalia

inspiring
business

AEDHE
ASSOCIATION OF EUROPEAN
DESIGNERS

**POLITECNICO
PORZENO**
Advanced Education

CINDEROSS: A TOOL FOR BUILDING DIGITAL CIRCULAR CONSTRUCTION
HUBS IN CITIES



PARTNERS

Leading organizations that have shared their expertise at [#SCEWC22](#)

PARTNERS



SUPPORTING INSTITUTIONS



PARTNERS

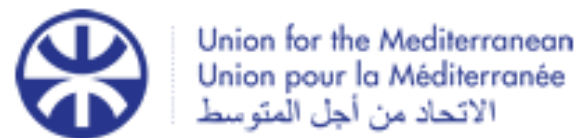
Leading organizations that have shared their expertise at [#SCEWC22](#)

STRATEGIC ORGANIZATIONS

Cities Coalition for
Digital Rights



FNP FRENTE
NACIONAL
DE PREFEITOS



PARTNERS

Leading organizations that have shared their expertise at [#SCEWC22](#)

COLLABORATING ORGANIZATIONS



RESEARCH & ACADEMIA PLAYERS



EXHIBITION AREA

Some industry-related organizations in the 2022 Exhibition Area.

- AGC GROUP (WIDEYE RHINO)
- BENITO URBAN
- CAME PARKARE GROUP
- DEXION
- DRESS & SOMMER
- INSTITUTE OF EKOLOGI (CINDERELLA)
- ITEC
- PORT OF ANTWERP-BRUGES
- PORT OF BARCELONA
- PORT OF LOS ANGELES
- PORT OF MONTREAL
- PORT OF ROTTERDAM
- SALVI LIGHTING
- SENER
- SMART PORTS – PIERS OF THE FUTURE
- SORIGUE

PARTICIPANTS

2022 **ATENDEE** PROFILES

- Architect
- Chief Building Official
- Chief of Housing and Urban Development
- City Manager
- Director of Planning and Strategic Infrastructure
- Director of Urban Planning
- Director of Urban Planning & Development
- Director of Sustainable Construction
- Head of Construction & Infrastructure
- Head of Land strategy and urbanism
- Urban Planner

PARTICIPANTS

2022

PUBLIC SECTOR REPRESENTATIVES

**Head of the Regional
Development
Planning Board**

City of Jakarta

Indonesia

**Minister of
Construction and
Urban Development**

Mongolia

**Subsecretary of Urban
Maintenance in the
Ministry of Public
Space and Urban
Hygiene**

City of Buenos Aires

Argentina

**Executive Director of
Infrastructure
Development Sector**

Ajman Municipality

United Arab Emirates

**Director of Urban
Planning**

City of East Santo Domingo

Dominican Republic

**Commune Engineer
Director of Planning**

City of Marrakesh

Morocco

**Secretary of
Government and
President of the
Institute of Research
and Urban Planning**

City of Curitiba

Brazil

**General Director of
Building**

City of San José

Uruguay

**Head of National Land
& Urban Development
Division**

City of Jinju-si

South Korea

Director of Planning

City of Montego Bay

Jamaica

**General Director of
Building**

City of San José

Uruguay

**Councillor in charge of
Urban Planning,
Housing, Grand Paris,
City Policies**

City of Paris

France



DEDICATED ACTIVITIES

IAAC VERTICAL FOOD FARM

The Vertical Food Farm prototype is a 3d printed vertical farm made from natural materials and co-designed with school communities and children. Enhancing biodiversity, self-sufficiency and educating the public in cities, the farm managed by the community produces food and becomes a host for insects and birds.



WORLD SMART CITY AWARDS

The annual World Smart City Awards is a prestigious international competition that seeks to recognize pioneering projects, ideas and strategies making cities around the world more livable, sustainable, and economically viable.



Infrastructure & Buildings Award 〔NEW CATEGORY!〕



Call for innovative projects implemented and developed in the field of smart infrastructures, BuildTech, decarbonization or zero-emission buildings.



WORLD SMART CITY AWARDS

Infrastructure & Buildings Winner

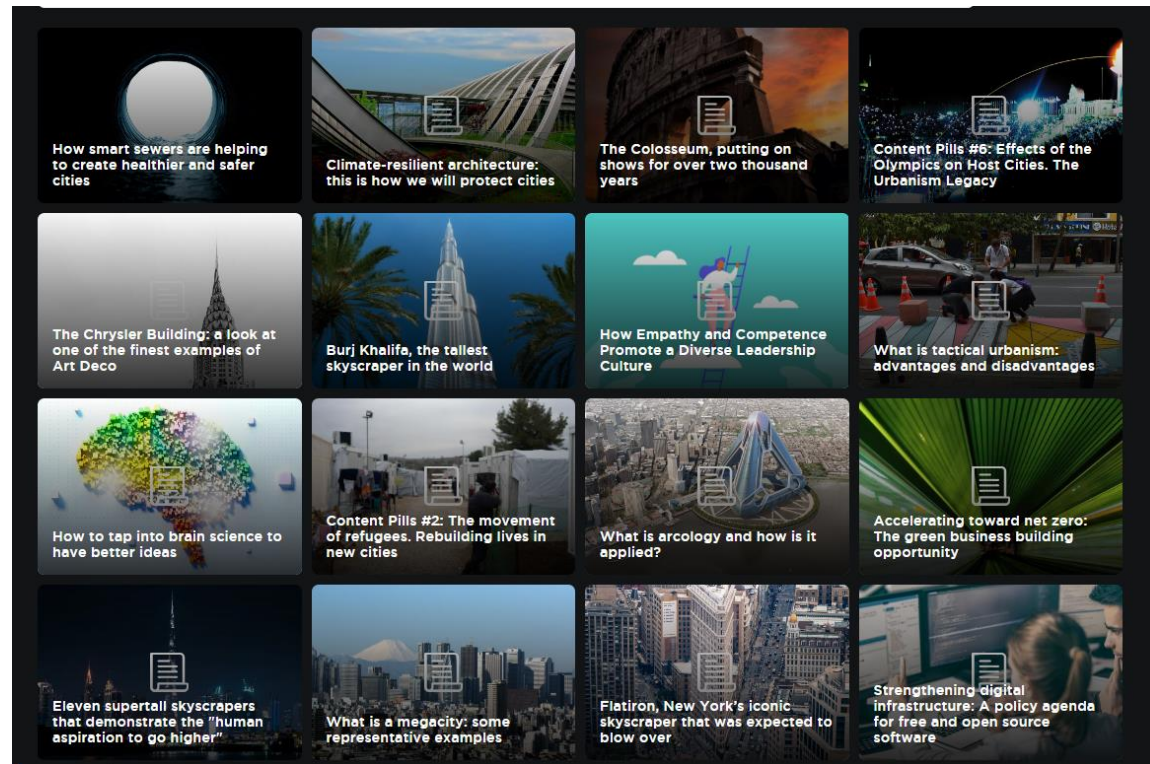


CIUDAD 3D: A new tool to promote urban development in the city of Buenos Aires

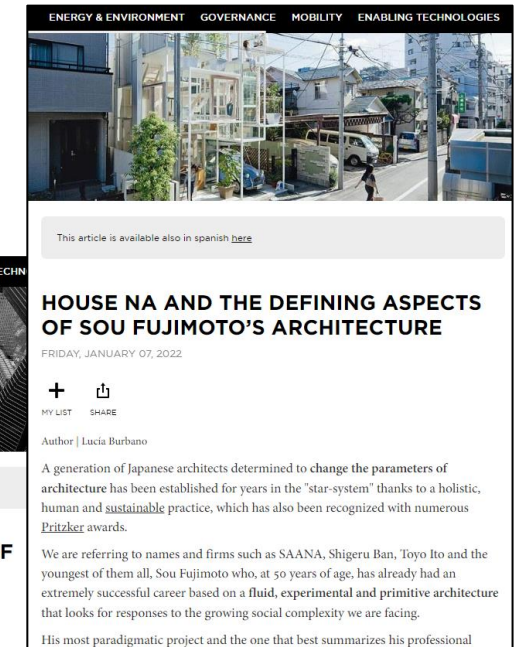
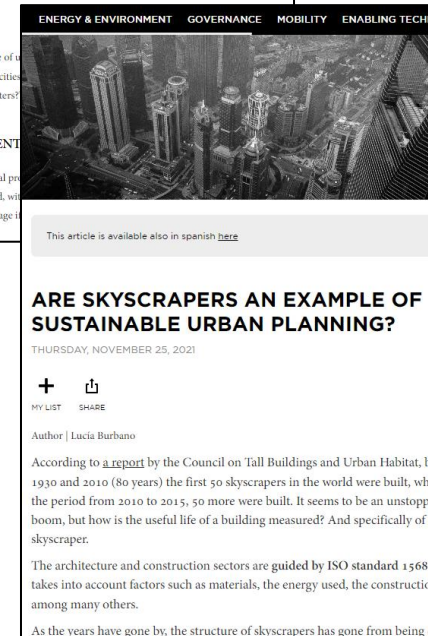
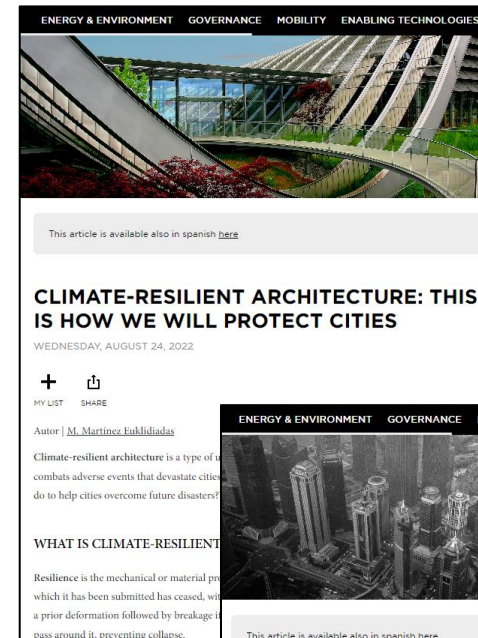


TOMORROW. CITY

A part of **TOMORROW.CITY**, the world's biggest platform devoted to creating and spreading content about cities and innovation.



DIGITAL PLATFORM





TOMORROW. BUILDING

15 - 17 NOV 2022
BARCELONA & ONLINE

Coming up next year...
7 - 9 NOV 2023

